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3	BRS	L3	522	forming SAME cartesian	US-PGPUB; USPAT; IBM_TDB	2005/04/18 11:08
4	BRS	L4	0	(forming SAME cartesian) and Pareto	US-PGPUB; USPAT; IBM_TDB	2005/04/18 11:08
5	BRS	L5	1	"6408428".pn.	US-PGPUB; USPAT; IBM_TDB	2005/04/18 11:09


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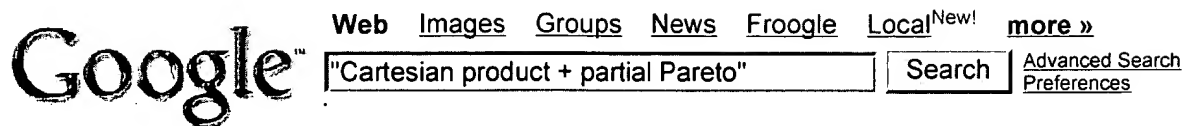


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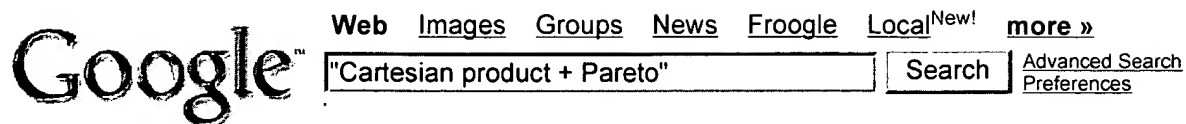
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[Grandhi-R-V](#); [Bharatram-G](#); [Venkayya-V-B](#).

Author affiliation

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T Theoretical or Mathematical.

Abstract

Presents a multiobjective optimization algorithm based on generalized compound scaling techniques. The algorithm handles any number of objective functions, similar to handling behavior constraints. The technique generates a **partial Pareto** set while solving the optimization problem. A reliability-based decision criterion is used for selecting the best compromise design. The example cases considered in this work include various disciplines in airframe structures, such as stress, displacement, and frequency with hundreds of design variables and constraints. The paper also discusses the concept of **Pareto-optimal** solutions in the context of a multiobjective structural optimization problem and the commonly used methods of generating **Pareto-optimal** solutions. (20 refs).

Descriptors

[decision-theory](#); [large-scale-systems](#); [optimisation](#); [reliability-theory](#).

Keywords

large scale structures; multiobjective optimization algorithm; generalized compound scaling techniques; **partial Pareto** set; reliability based decision criterion; airframe structures; **Pareto** optimal solutions.

Classification codes

C1210B (Reliability theory).
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